



Douglas-fir beetle

Spruce beetle

Fir engraver beetle

Ips engraver beetle

Western pine beetle

Pinon ips

National Forest

Tribal Lands

Community Location

Major Roads

County Boundaries

Estimated number of dead trees
(for mortality agents only)

Total estimated number of dead piñon trees within dotted line
(used only in areas where individual polygons could not be labeled)

Heavy western spruce budworm

Light western tent caterpillar

Heavy western tent caterpillar

Light Lophodermella needle cast

Heavy Lophodermella needle cast

Chemical damage

Annual forest insect and disease aerial detection survey was conducted by Richard Norris, Forest Health, New Mexico Zone Office, Southwestern Region on the following dates:
Carson NF and surrounding area flown 7/21/2003 - 8/1/2003 (Pilot: Gerry Hoogerwerf)
Cibola NF and surrounding area flown 8/4/2003 - 8/8/2003 (Pilot: Mountain Aviation)
Santa Fe NF and surrounding area flown 6/10/2003 - 7/18/2003 (Pilot: Mountain Aviation)

Supplemental aerial detection surveys for piñon mortality were conducted 3/04/2003 and 3/11/2003 by Craig Daugherty and Todd Haines, New Mexico Forestry Division and 8/28/2003 - 9/30/2003 by Todd Haines, NM Forestry Division, Terry Rogers and Daniel Ryerson, Forest Health, New Mexico Zone Office, Southwestern Region (Pilot: Gerry Hoogerwerf).

2003

Insect and Disease Aerial Survey

Santa Fe National Forest

and Vicinity

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Miles

N

U.S. Forest Service